

Laurent Kergoat

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

4,848
citations

94433

37
h-index

98798

67
g-index

80
all docs

80
docs citations

80
times ranked

5627
citing authors

#	ARTICLE	IF	CITATIONS
1	Wind erosion response to past and future agro-pastoral trajectories in the Sahel (Niger). <i>Landscape Ecology</i> , 2022, 37, 529-550.	4.2	3
2	Woody plant decline in the Sahel of western Niger (1996–2017): is it driven by climate or land use changes?. <i>Journal of Arid Environments</i> , 2022, 200, 104719.	2.4	3
3	Spatio-temporal dynamics of suspended particulate matter in the middle Niger River using in-situ and satellite radiometric measurements. <i>Journal of Hydrology: Regional Studies</i> , 2022, 41, 101106.	2.4	1
4	Contrasting responses of woody and herbaceous vegetation to altered rainfall characteristics in the Sahel. <i>Biogeosciences</i> , 2021, 18, 77-93.	3.3	11
5	Environmental determinants of <i>E. coli</i> , link with the diarrheal diseases, and indication of vulnerability criteria in tropical West Africa (Kopore, Burkina Faso). <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009634.	3.0	7
6	An unexpectedly large count of trees in the West African Sahara and Sahel. <i>Nature</i> , 2020, 587, 78-82.	27.8	212
7	Drought-induced regime shift and resilience of a Sahelian ecohydrosystem. <i>Environmental Research Letters</i> , 2019, 14, 105005.	5.2	12
8	Potential of SWOT for Monitoring Water Volumes in Sahelian Ponds and Lakes. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 2541-2549.	4.9	19
9	Changes in rainfall distribution promote woody foliage production in the Sahel. <i>Communications Biology</i> , 2019, 2, 133.	4.4	49
10	Influence of Floods and Growth Duration on the Productivity of Wet Grasslands of <i>Echinochloa stagnina</i> (Retz) P. Beauv. in an East African Floodplain. <i>Wetlands</i> , 2019, 39, 935-944.	1.5	2
11	Reduction of tree cover in West African woodlands and promotion in semi-arid farmlands. <i>Nature Geoscience</i> , 2018, 11, 328-333.	12.9	94
12	Impact of Agropastoral Management on Wind Erosion in Sahelian Croplands. <i>Land Degradation and Development</i> , 2018, 29, 800-811.	3.9	28
13	Modelling the growth of floodplain grasslands to explore the impact of changing hydrological conditions on vegetation productivity. <i>Ecological Modelling</i> , 2018, 387, 220-237.	2.5	6
14	Potential of SWOT for Monitoring Water Volumes in Sahelian Ponds and Lakes. , 2018, , .		1
15	AMMA – CATCH, a Critical Zone Observatory in West Africa Monitoring a Region in Transition. <i>Vadose Zone Journal</i> , 2018, 17, 1-24.	2.2	49
16	Evolution of Surface Hydrology in the Sahelo-Sudanian Strip: An Updated Review. <i>Water (Switzerland)</i> , 2018, 10, 748.	2.7	70
17	Modeling Surface Runoff and Water Fluxes over Contrasted Soils in the Pastoral Sahel: Evaluation of the ALMIP2 Land Surface Models over the Gourma Region in Mali. <i>Journal of Hydrometeorology</i> , 2017, 18, 1847-1866.	1.9	15
18	A 60-year reconstructed high-resolution local meteorological data set in Central Sahel (1950–2009): evaluation, analysis and application to land surface modelling. <i>International Journal of Climatology</i> , 2017, 37, 2699-2718.	3.5	15

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19	Influence of dry-season vegetation variability on Sahelian dust during 2002–2015. <i>Geophysical Research Letters</i> , 2017, 44, 5231-5239.	4.0	18
20	Modelling spatial and temporal dynamics of gross primary production in the Sahel from earth-observation-based photosynthetic capacity and quantum efficiency. <i>Biogeosciences</i> , 2017, 14, 1333-1348.	3.3	16
21	Analysis of Suspended Particulate Matter and Its Drivers in Sahelian Ponds and Lakes by Remote Sensing (Landsat and MODIS): Gourma Region, Mali. <i>Remote Sensing</i> , 2017, 9, 1272.	4.0	21
22	The Surface Energy Budget Computed at the Grid-Scale of a Climate Model Challenged by Station Data in West Africa. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2710-2738.	3.8	18
23	The paradoxical evolution of runoff in the pastoral Sahel: analysis of the hydrological changes over the Agoufou watershed (Mali) using the KINEROS-2 model. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4591-4613.	4.9	45
24	Monitoring water turbidity and surface suspended sediment concentration of the Bagre Reservoir (Burkina Faso) using MODIS and field reflectance data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 52, 243-251.	2.8	39
25	Spatiotemporal variability in carbon exchange fluxes across the Sahel. <i>Agricultural and Forest Meteorology</i> , 2016, 226-227, 108-118.	4.8	27
26	Changes in lakes water volume and runoff over ungauged Sahelian watersheds. <i>Journal of Hydrology</i> , 2016, 540, 1176-1188.	5.4	41
27	Assessing woody vegetation trends in Sahelian drylands using MODIS based seasonal metrics. <i>Remote Sensing of Environment</i> , 2016, 183, 215-225.	11.0	87
28	Changes in Sahelian annual vegetation growth and phenology since 1960: A modeling approach. <i>Global and Planetary Change</i> , 2016, 143, 162-174.	3.5	10
29	Can we use surface wind fields from meteorological reanalyses for Sahelian dust emission simulations?. <i>Geophysical Research Letters</i> , 2015, 42, 2490-2499.	4.0	56
30	Modelling the effect of soil moisture and organic matter degradation on biogenic NO emissions from soils in Sahel rangeland (Mali). <i>Biogeosciences</i> , 2015, 12, 3253-3272.	3.3	19
31	Dry-season vegetation mass and cover fraction from SWIR1.6 and SWIR2.1 band ratio: Ground-radiometer and MODIS data in the Sahel. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 39, 56-64.	2.8	21
32	Modeling vegetation and wind erosion from a millet field and from a rangeland: Two Sahelian case studies. <i>Aeolian Research</i> , 2015, 19, 97-111.	2.7	22
33	Comparing land surface phenology with leafing and flowering observations from the PlantWatch citizen network. <i>Remote Sensing of Environment</i> , 2015, 160, 273-280.	11.0	57
34	Rain-Use-Efficiency: What it Tells us about the Conflicting Sahel Greening and Sahelian Paradox. <i>Remote Sensing</i> , 2014, 6, 3446-3474.	4.0	81
35	Coupled estimation of surface heat fluxes and vegetation dynamics from remotely sensed land surface temperature and fraction of photosynthetically active radiation. <i>Water Resources Research</i> , 2014, 50, 8420-8440.	4.2	28
36	Re-greening Sahel: 30years of remote sensing data and field observations (Mali, Niger). <i>Remote Sensing of Environment</i> , 2014, 140, 350-364.	11.0	253

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37	Modeling wind erosion flux and its seasonality from a cultivated sahelian surface: A case study in Niger. <i>Catena</i> , 2014, 122, 61-71.	5.0	27
38	Monitoring dry vegetation masses in semi-arid areas with MODIS SWIR bands. <i>Remote Sensing of Environment</i> , 2014, 153, 40-49.	11.0	70
39	Surface response to rain events throughout the West African monsoon. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3883-3898.	4.9	39
40	Actual evapotranspiration in drylands derived from in-situ and satellite data: Assessing biophysical constraints. <i>Remote Sensing of Environment</i> , 2013, 131, 103-118.	11.0	104
41	Evaluation of MODIS gross primary productivity for Africa using eddy covariance data. <i>Remote Sensing of Environment</i> , 2013, 131, 275-286.	11.0	125
42	The Niger River Niamey flood of 2012: The paroxysm of the Sahelian paradox?. <i>S�cheresse</i> , 2013, 24, 3-13.	0.1	39
43	Land water storage variability over West Africa estimated by Gravity Recovery and Climate Experiment (GRACE) and land surface models. <i>Water Resources Research</i> , 2011, 47, .	4.2	76
44	Remote sensing of the land surface during the African Monsoon Multidisciplinary Analysis (AMMA). <i>Atmospheric Science Letters</i> , 2011, 12, 129-134.	1.9	12
45	Contrasted land�surface processes along the West African rainfall gradient. <i>Atmospheric Science Letters</i> , 2011, 12, 31-37.	1.9	23
46	Less rain, more water in ponds: a remote sensing study of the dynamics of surface waters from 1950 to present in pastoral Sahel (Gourma region, Mali). <i>Hydrology and Earth System Sciences</i> , 2010, 14, 309-324.	4.9	81
47	Observations of the Nocturnal Boundary Layer Associated with the West African Monsoon. <i>Monthly Weather Review</i> , 2010, 138, 3142-3156.	1.4	24
48	Precipitation as driver of carbon fluxes in 11 African ecosystems. <i>Biogeosciences</i> , 2009, 6, 1027-1041.	3.3	106
49	The AMMA Land Surface Model Intercomparison Project (ALMIP). <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 1865-1880.	3.3	165
50	Surface thermodynamics and radiative budget in the Sahelian Gourma: Seasonal and diurnal cycles. <i>Journal of Hydrology</i> , 2009, 375, 161-177.	5.4	68
51	Multi-scale soil moisture measurements at the Gourma meso-scale site in Mali. <i>Journal of Hydrology</i> , 2009, 375, 241-252.	5.4	98
52	Rainfall regime across the Sahel band in the Gourma region, Mali. <i>Journal of Hydrology</i> , 2009, 375, 128-142.	5.4	85
53	AMMA-CATCH studies in the Sahelian region of West-Africa: An overview. <i>Journal of Hydrology</i> , 2009, 375, 3-13.	5.4	212
54	Response of surface energy balance to water regime and vegetation development in a Sahelian landscape. <i>Journal of Hydrology</i> , 2009, 375, 178-189.	5.4	76

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55	The AMMA-CATCH Gourma observatory site in Mali: Relating climatic variations to changes in vegetation, surface hydrology, fluxes and natural resources. <i>Journal of Hydrology</i> , 2009, 375, 14-33.	5.4	140
56	Seasonal variations of leaf area index of agricultural fields retrieved from Landsat data. <i>Remote Sensing of Environment</i> , 2008, 112, 810-824.	11.0	119
57	Spring phenology in boreal Eurasia over a nearly century time scale. <i>Global Change Biology</i> , 2008, 14, 603-614.	9.5	113
58	Analysis of the in situ and MODIS albedo variability at multiple timescales in the Sahel. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	49
59	Nitrogen controls plant canopy light-use efficiency in temperate and boreal ecosystems. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	64
60	Large-scale overview of the summer monsoon over West Africa during the AMMA field experiment in 2006. <i>Annales Geophysicae</i> , 2008, 26, 2569-2595.	1.6	181
61	Remote sensing of spring phenology in boreal regions: A free of snow-effect method using NOAA-AVHRR and SPOT-VGT data (1982-2004). <i>Remote Sensing of Environment</i> , 2006, 101, 52-62.	11.0	231
62	Determination of phenological dates in boreal regions using normalized difference water index. <i>Remote Sensing of Environment</i> , 2005, 97, 26-38.	11.0	297
63	Calibration of a coupled canopy functioning and SVAT model in the ReSeDA experiment. Towards the assimilation of SPOT/HRV observations into the model. <i>Agronomy for Sustainable Development</i> , 2002, 22, 681-686.	0.8	13
64	Comparing global models of terrestrial net primary productivity (NPP): analysis of differences in light absorption and light-use efficiency. <i>Global Change Biology</i> , 1999, 5, 56-64.	9.5	304
65	MUREX: a land-surface field experiment to study the annual cycle of the energy and water budgets. <i>Annales Geophysicae</i> , 1999, 17, 838-854.	1.6	41
66	Global-Scale Assessment of Vegetation Phenology Using NOAA/AVHRR Satellite Measurements. <i>Journal of Climate</i> , 1997, 10, 1154-1170.	3.2	317
67	Coupling satellite data with vegetation functional models: Review of different approaches and perspectives suggested by the assimilation strategy. <i>International Journal of Remote Sensing</i> , 1997, 15, 283-303.	1.0	34
68	The use of CO ₂ flux measurements in models of the global terrestrial carbon budget. <i>Global Change Biology</i> , 1996, 2, 287-296.	9.5	38
69	Revisiting historical climatic signals to better explore the future: prospects of water cycle changes in Central Sahel. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 371, 195-201.	1.0	6